

sub 29. (Amended) The method according to claim 1 wherein sensitization of the sensing surface comprises immobilizing an analyte-specific ligand to the sensing surface.

sub 14. (Amended) The method according to claim 11 wherein at least the ligand of the first sensitizing fluid or the second sensitizing fluid is an analyte-specific ligand.

sub 16. (Amended) The method according to claim 11 wherein at least the ligand of the first sensitizing fluid or the second sensitizing fluid is a bi-functional ligand.

sub 17. (Amended) A sensitized sensing surface made according to the method of claim 1.

sub 18. (Amended) A method of analyzing a fluid sample for an analyte, comprising sensitizing a discrete sensing area on a sensing surface by the method according to claim 1, contacting the sensing area with the fluid sample, and detecting interaction between the analyte and the sensing area.

sub 39. (Amended) A sensor system, comprising a sensor device according to claim 31 and further comprising:

means for applying laminar fluid flows through the inlet openings, such that the laminar fluid flows pass side by side through the flow cell over the sensing surface;

means for varying the relative flow rates of the laminar flows of fluids to vary the respective lateral extensions of the laminar flows over the sensing surface; and

detection means for detecting interaction events on the sensing surface.

sub 43. (Amended) A method of synthesizing compounds, comprising sensitizing a discrete sensing area on a sensing surface by the method according to claim 1, wherein such sensitization constitutes the successive addition of chemical moieties to achieve compound synthesis.